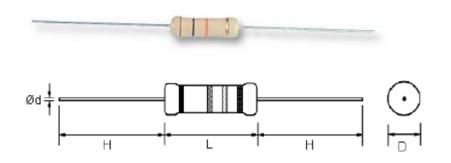
Carbon Film Resistors

MCF 0.25W Series





Features:

- Automatically insertable
- · High quality performance
- Non-flame type available
- · Cost effective and commonly used
- Too low or too high values can be supplied on a case to case basis

Performance Specifications:

Temperature Coefficient : ± 350 PPM / °C for $\leq 10 \Omega$

 ± 450 PPM / °C for 11 Ω - 99 K Ω 0 to -700 PPM / °C for 100 K Ω to 1 M Ω 0 to -1,500 PPM / °C for 1.1 M Ω to 10 M Ω

Short-Time Overload : $\Delta R / R \le \pm (1\% + 0.05 \Omega)$, with no evidence of mechanical damage

Minimum Insulation Resistance : 10,000 M Ω

Dielectric Withstanding Voltage : No evidence of flashover, mechanical damage, arcing or insulation breakdown

Terminal Strength : No evidence of mechanical damage

Resistance to Soldering Heat $: \Delta R / R \le \pm (1\% + 0.05 \Omega)$, with no evidence of mechanical damage

Minimum Solderability : 95% coverage

Resistance to Solvent : No deterioration of protective coating and markings

Non-flame type : $\Delta R / R \pm 5\%$ for <100 K Ω , $\pm 10\%$ for ≥ 100 K Ω

Operating Temperature : -55°C to +155°C

Specification Table

Series	Power Rating at 70°C (W)	Dimension				Maximum Working	Maximum Overload	Dielectric Withstanding	Resistance
		Maximum Diameter (D)	Maximum Length (L)	Height (H ±3)	Lead Diameter (d ±0.05)	Voltage (V)	Voltage (V)	Voltage (V)	Range
MCF 0.25W	1/4 (0.25)	2.5	6.8	28	0.54	250	500	500	1 Ω to 10 M Ω

Note: Standard E-24 series values in ±5% tolerance

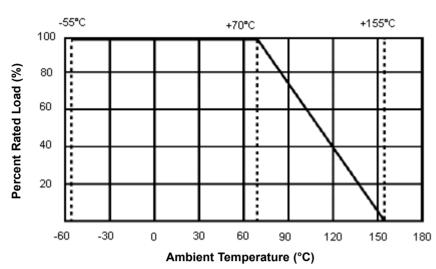


Dimensions: Millimetres

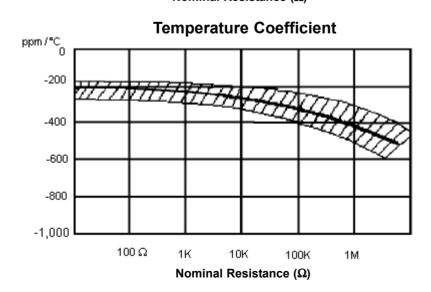
Carbon Film Resistors MCF 0.25W Series



Derating Curve



Current Noise 0.32 0.1 0.03 0.01 0.003 100 Ω 1K 10K 100K 1M Nominal Resistance (Ω)





Carbon Film Resistors MCF 0.25W Series

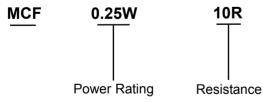


Resistance Preferred Value Range

	E12	E24	E96	E6	E12	E24	E96	E6	E12	E24	E96
10	10	10	10				21.5				46.4
			10.2	22	22	22	22.1	47	47	47	47.5
			10.5				22.6				48.7
			10.7				23.2				49.9
		11	11				23.7			51	51.1
			11.3			24	24.3				52.3
			11.5				24.9				53.6
_			11.8				25.5				54.9
	12	12	12.1				26.1		56	56	56.2
			12.4	_			27.7				57.6
			12.7	_	27	27	27.4				59
		13	13				28				60.4
			13.3				28.7			62	61.9
			13.7				29.4				63.4
			14			30	30.1				64.9
			14.3				30.9				66.5
			14.7				31.6	68	68	68	68.1
15	15	15	15				32.4				69.8
			15.4	33	33	33	33.2				71.5
			15.8				34				73.2
		16	16.2				34.8			75	75
			16.5				35.7				76.8
			16.9			36	36.5				78.7
			17.4				37.4				80.6
			17.8				38.3		82	82	82.5
	18	18	18.2		39	39	39.2				84.5
			18.7				40.2				86.6
			19.1				41.2				88.7
			19.6				42.2			91	90.9
		20	20			43	43.2				93.1
			20.5				44.2				95.3
			21				45.3				97.6

Above values in accordance with IEC Publication 63 (1963) and BS2488

Part Number Explanation:



Stocked Values

Tolerance	Wattage (W)	Preferred Value Range	Range Value
5%	0.5	E24	1R - 10M

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